

Vermont Department of Environmental Conservation

Agency of Natural-Resources

Watershed Management Division Barre Regional Office 5 Perry Street, Suite 80 Barre, VT 05641

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[ce

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AUTHORIZATION TO CONDUCT STREAM ALTERATION ACTIVITIES

Pursuant to Section C.2.2 of the VT Stream Alteration General Permit (Reporting activities not requiring an application)

Project	umber: SA-03 - <u>/03</u> 2015	
Applica	Name: TOWN OF HOLLAND GO BARD WIESEN	
Mailing	ddress: 120 School RU. HIZCAND VT Phone: -	
Project	Name: Town OF HOLLAND GO BARD WIESEN ddress: 120 School RD. HIZLAND VT Phone: pocation STEARNS BROOK ROAD BR 31 Email: 6, Wiesene dyfair point inc	21
	tary of the Vermont Agency of Natural Resources (VT ANR) has determined that: his project authorizes the replacement of an open bottom pipe arch with A NEW 28' Precast open bottom bridge structure, he proposed activity is eligible for coverage under the VT ANR Stream Alteration General Permit.	
2.		
3.	he proposed activity will meet the terms and conditions of the General Permit provided:	
) The project will be completed and approved as shown on the plan dated	
	HOLDEN ENGINERAING MC, and approved by the Vermont Agency of Natural Resources.	
) The project will not adversely affect the public safety by increasing flood hazards.	
	The project will not significantly damage fish life or wildlife.	
) The project will not significantly damage the rights of riparian owners.	
) The project will not obstruct the movement of aquatic life indigenous to the waterbody beyond the actual duration construction.	O
	The project is conducted in a manner which minimizes or avoids any discharge of sediment or other pollutants to surface waters in violation of the VT Water Quality Standards.	
	The ANR River Management Engineer is notified by phone or email when construction begins and when the project complete.	is
) A final construction inspection is required for all culvert and bridge projects.	
	In-stream working dates are from June 1 st through October 1 st ; any in-stream work outside these dates will require Individual Stream Alteration Permit authorization by the River Management Engineer.	an
	This authorization has been posted for three days public comment. This authorization constitutes final approval.	
	Additional Conditions for this project: Pre construction musting required with the Selected Contractor. Pre	
	e any changes in the project plan or deviation in construction from the plan, the Permittee must notify the River ent Engineer immediately.	
	ect is constructed as you have described, as shown on the above referenced approved plans and according to the aditions, there is no reason to expect any violation of Vermont Water Quality Standards.	;

David K. Mears, Commissioner

Department of Environmental Conservation

by: Patrick Q. Rost, P. E. dated

dated: 1-27-2015

Patrick Ross, P.E., River Management Engineer

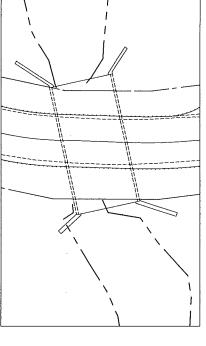
PROPOSED CULVERT REPLACEMENT PROJECT TOWN OF HOLLAND, VERMONT

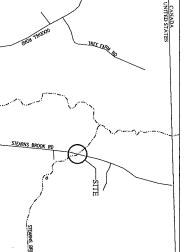
COUNTY OF ORLEANS STATE OF VERMONT TOWN OF HOLLAND

WATERSHED MANAGEMENT DIVISION 1202E

ROUTE #: TH 8 (STEARNS BROOK ROAD) BRIDGE#:31

AND CONDITIONS OF STREAM ALTERATION PERMITH SA- 63 - 163 - ZOTO SUED HEREWITH THIS APPROVAL IS SUBJECT TO THE TERMS





SHEET LIST

- DESCRIPTION
- EXISTING CONDITIONS PLAN
- PROPOSED ROADWAY PROFILE PROPOSED ROADWAY PLAN
- TYPICAL SECTIONS & BRIDGE ELEVATION VIEWS DETAILS: FOOTINGS, ABUTMENTS & WINGWALLS
- ROADWAY CROSS SECTIONS ROADWAY CROSS SECTIONS
- ROADWAY CROSS SECTIONS
- EROSION CONTROL DETAILS
- DELINEATOR AND MILEPOST DETAILS
- GUARDRAIL DETAILS

HOLDEN TRANSPORTATION

ENGINEERING

STEARNS BROOK ROAD BRIDGE COVER SHEET DESIGN

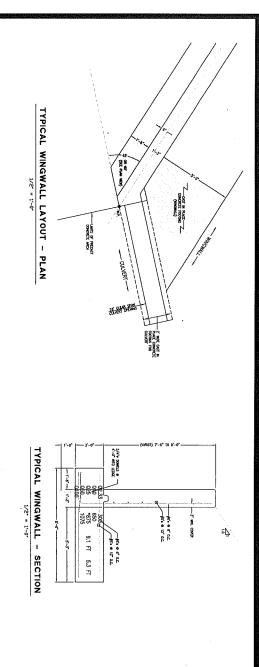
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HOLDEN TRANSPORTATION ENGINEERING OFFICE OFFICE OF OFFICE LEGEND COMPLET ONA L-78.65 A-4004 IN 1-39.07 CO-HIE STORT CO-75.77 S Constitution Drive Bedford, N.H. 00110 (SOI) 472-2018 ☐ \$6 OH Sencock Road — Lind # PD Shu + RD Concord #H. 05502 (803) 225—6446 STEARNS BROOK ROAD BRIDGE DESIGN HOLLAND, VT PROPOSED ROADWAY PLAN PALIFORD STATE IN POLE ST. CE 1211.48 C S/E RC-BAR UP OUT HORIZAN DAG, MODEUL LISS,754 POLMO STEARNS BROOK DESCRIPTION OF STEEL ST. DISCRIPTION OF ST. DISCRIP Date: 11-25-14
Scale: 1" = 10'
Dr. By: RL Ck. By: DJ
Job No. 1470019

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Sheet No. 4 of 13



CONCRETE FOOTING TEDGE PROPOSED CULVERT - SECTION 28"-0" CLEAR OPENING l_{i} #6 BAR DOWELS © 2" O.C.— STAGGERED, PROVIDE 12" EMBEDMENT WITH NON-SHRINK GROUT #3 HOOP BARS-• 12" O.C. TEDGE EDGE OF CULVERT -(4) - \$5 BARS CONTINUOUS
(ADD BARS AS FOOTING GETS TALLER
(\$5'\$ \cdot 0.12") 1197. 1195'± - 1193'±

CONSTRUCTION NOTES:

1, ALL SIE WORK SHALL BE IN CONFOBUNCE WITH FEBROOT ACREST OF TRANSPORTATION "STRUMEND SPECIFICATIONS FOR CONSTRUCTION," 2001 EDTION EXCEPT AS MODIFIED IN THE DRAWNINGS, SPECIFICATIONS AND MOTES.

2. SUB-BASE FOR THE ROADWAY SHALL CONSIST OF 12" MINIMUM THICKNESS OF COMPSE CRANGE CRANGE CRANGE CONFER FOR THE SUB-BASE (TIEDA COMPACTED TO JANUARY AT LEAST SECTION OF MONEYED TO JANUARY AT LEAST SECTION OF MONEYED TO JANUARY AT LEAST SECTION OF MONEYED TO JANUARY CONFIST AND SHOULDEST STATE OF MONEY OF MONEY CONFIST AND SHOULDEST STATE OF MONEY CONFISION STATE OF MONEY CONFIST AND SHOULDEST STATE OF MONEY CONFISION SHOULDEST STATE OF MONEY CONFISION STATE OF MONEY CONFI

2. SIE PREPARTON AND ERFINNON SMALL BE AS FOLLOWS:

A TOPSOL MO ARY UNDERLING SUBSOLE WHICH CONTAMS ORGANIC MICHAEL SHALL BE
REHOVED FROM THE ROJOWAY AND CULVERT MED'S, RECARDLESS OF IT'S THICKNESS.

C. EXCAVATION SIDESLOPES SHOULD BE NO SITEPER THAN THOSE ALLOWED BY OSHAUNLESS BRACING OR TRENCH BOXES ARE UTILIZED. A. GROUNDWATER COMPACY, MEASURES SMALL BE PERFORMED SO THAT THE EXCAMITON ACTIVITIES OWN BE CONSTRUCTED IN THE DRY AND LIMITING THE POTENTIAL FOR THE DISTURBANCE OF SUBGROUPE SOLIS.

DI PRODREJUNO DI SIGNANE SONE SHALI DE CONDUCTEDI PRODRI TO PLACADENT DE TILL PRODREJUNO STOLIDI NOTI DE CONDUCTEDI MAPO DISTINANCE DI FINE SUBRADOLE SINSI MAY COCIAR NE A RESULTI DI PRODREJUNO, SUCH AS MACINI SUBRADOLE SINI MET METI, LOSCE DI SOTT CANES DEPITIEDE DI DINNE PROPERATURI DE SUNDI DE DICAMEDI AND REPUACO MITH COMPACIED COMESE GRANEL FOR SUB-BASE (TEN DICAMEDI AND REPUACO MITH COMPACIED COMESE GRANEL FOR SUB-BASE (TEN

704.04) FALL PUACED WITHIN CULVERT AREAS SHALL CONSIST OF GRANUALAR BACKGILL FOR STRUCTURES (ITEM 704.08) OR APPROVED EQUAL

F. SOIL MATERALS SHALL BE PLACED IN LODGE LIFTS NOT TO EXCEED 12 INCHES THICKNESS AND SHOULD BE COMPACTED TO THE FOLLOWING REQUIREMENTS (REFERENCE TO ASTM D-1557, METHOD D OR D):

1. BASE COURSES - 95%
2. BELOW PANELIST SUB-BASE AND BASE COURSES - 95%
3. BACKFILL OF WALLS AND CLAYERT - 95%
4. ORDINARY FILL WITHIN THE TOP 3 FEET OF GRACE IN GRASS AREAS - 90%

. PRECAST CONCRETE SHALL BE IN CONFORMANCE WITH SECTION 501, STRUCTURAL ONCRETE, AND SECTION 507, REINFORCING STEEL

5. THE CAST IN PLACE CONCRETE FOOTING AND WINGWALL SHALL BE CLASS B (3500 PS))AND THE REINFORCING STEEL BARS SHALL BE GRADE 60 EXPOXY COATED.

7. THE EXISTING STONE SHALL BE REUSED AS RIP RAP ON THE SLOPES. s. The precast concrete arch culvert shall be designed in accordance with assitio liked design specification 2012.

8. THE WHER PRYSS AND INCESON SYSTEM RECESSION IN CHORE TO CONSTRUCT THIS BRODGE SYALL BE DESINAED BY THE CONTRACTOR AND SUBMITED FOR REVIEW AND APPROVAL TO PATRICK, ROSS. BURKER, AT THE VT DEC WATER MANUSURYT. TELEPHONE NO. 802–279–1143, E-moil: patrick/cost/d-state/alia

SUMMARY OF HYDRAULIC INFORMATION:

1075	*875 9.1 FT	÷	JURRANCE FLOW EXISTING PROTERVAL FLOW HEADWATER HEA YEARS) RATE (CFS) DEPTH D	
	5.3 FT		IG PROPOSED FER HEADWATER DEPTH	

INDICATES THE TOWN HIGHWAY DESIGN FLOW

HOLDEN TRANSPORTATION S 9 Constitution Drive Busting K.K. AUTO (803) 472–2078

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DETAILS - FOOTINGS, ABUTMENTS & WINGWALLS STEARNS BROOK ROAD BRIDGE HOLLAND, 5 DESIGN

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